AMENDMENTS TO THE CLAIMS

Claim 1. (Currently amended) A fuel cell electrode, comprising:

- (a) a plurality of carbon nanotubes, wherein the carbon nanotubes comprise single-wall carbon nanotubes wherein the single-wall carbon nanotubes are derivatized with a functional group, and wherein the plurality forms a mat of carbon nanotubes, wherein the mat has a planar area and wherein the mat has a thickness greater than one micron, and
- (b) a catalyst metal selected from the group consisting of chromium (Cr), molybdenum (Mo), tungsten (W), manganese (Mn), technetium (Tc), rhenium (Re), iron (Fe), ruthenium (Ru), osmium (Os), cobalt (Co), rhodium (Rh), iridium (Ir), nickel (Ni), palladium (Pd), platinum (Pt), copper (Cu), silver (Ag), gold (Au), zinc (Zn), tin (Sn), aluminum (Al), and combinations thereof, in contact with the mat of carbon nanotubes.

Claims 2.-3. (Cancelled)

Claim 4. (Currently amended) The electrode of claim $\frac{3}{2}$ wherein the functional group is a carboxylic acid group.

Claim 5. (Original) The electrode of claim 1 wherein the catalyst metal comprises platinum.

Claim 6. (Original) The electrode of claim 1 wherein the catalyst metal comprises platinum and ruthenium.

Claim 7. (Original) The electrode of claim 1 wherein the catalyst metal is present in an amount less than $400 \,\mu\text{g/cm}^2$ of the planar area of the mat of the carbon nanotubes.

Claim 8. (Original) The electrode of claim 1 wherein the catalyst metal is present in an amount less than $100 \,\mu\text{g/cm}^2$ of the planar area of the mat of the carbon nanotubes.

- Claim 9. (Original) The electrode of claim 1 wherein the catalyst metal is present in an amount less than $50 \,\mu\text{g/cm}^2$ of the planar area of the mat of the carbon nanotubes.
- Claim 10. (Original) The electrode of claim 1 wherein the catalyst metal is present in an amount less than $25 \mu g/cm^2$ of the planar area of the mat of the carbon nanotubes.
- Claim 11. (Original) The electrode of claim 1 wherein the catalyst metal is present in an amount less than $10 \,\mu\text{g/cm}^2$ of the planar area of the mat of the carbon nanotubes.
- Claim 12. (Currently amended) <u>A</u> The electrode of claim 1 wherein the electrode is a component in a hydrogen/oxygen proton exchange membrane fuel cell (PEMFC) comprising the electrode of claim 1.
- Claim 13. (Original) The electrode of claim 1 wherein a) the electrode is a component in a hydrogen/oxygen PEMFC, wherein b) the catalyst metal comprises platinum, wherein c) the carbon nanotubes are single-wall carbon nanotubes, and wherein d) the electrode provides greater than 1 mA/cm² per µg Pt/cm² of the planar area of the mat of carbon nanotubes.
- Claim 14. (Original) The electrode of claim 13 wherein the electrode provides greater than 10 mA/cm² per µg Pt/cm² of the planar area of the mat of carbon nanotubes.
- Claim 15. (Original) The electrode of claim 13 wherein the electrode provides greater than 50 mA/cm² per µg Pt/cm² of the planar area of the mat of carbon nanotubes.
- Claim 16. (Original) The electrode of claim 13 wherein the electrode provides greater than 100 mA/cm² per µg Pt/cm² of the planar area of the mat of carbon nanotubes.
- Claim 17. (Currently amended) A The electrode of claim 1 wherein the electrode is a component in a direct methanol fuel cell (DMFC) comprising the electrode of claim 1.

Claims 18.-62. (Canceled)